

Approved
by
BR 5-30-2003

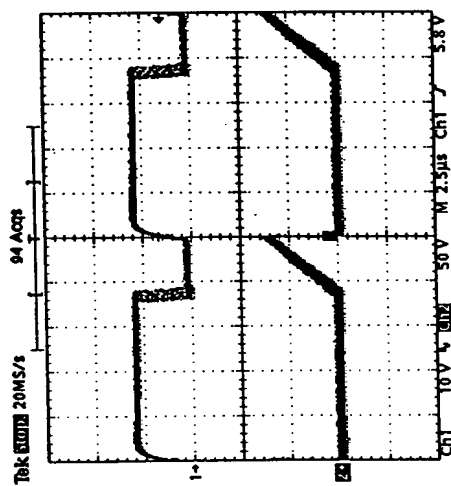


Fig. 8

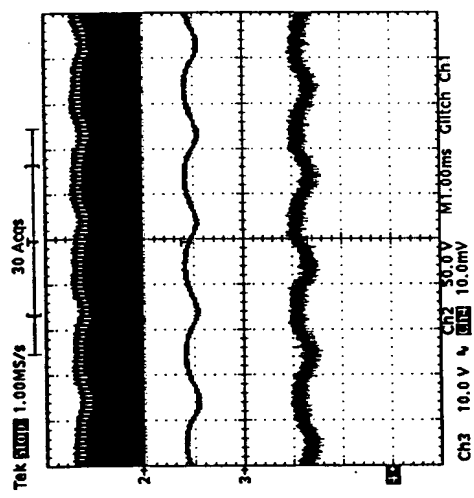
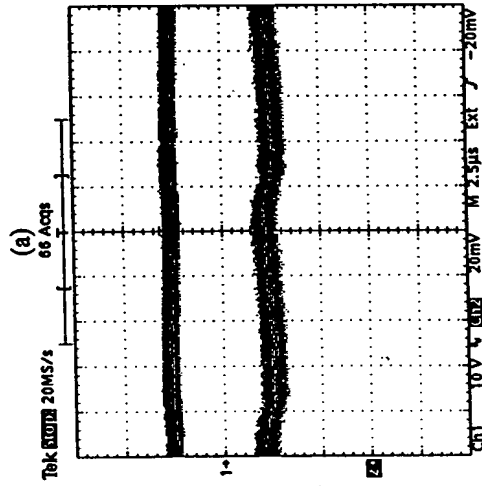
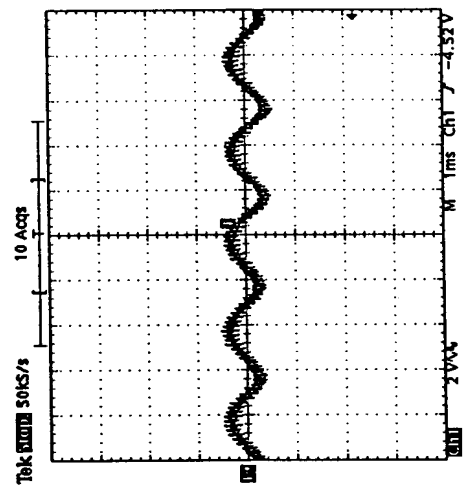


Fig. 8 Experimental waveforms of the SEPIC converter. Ch2: switch voltage stress, 50V/div; Ch3: input voltage, 10V/div; Ch4: input current, 0.5A/div.



(b)

Fig. 7 Detailed experimental waveforms of the SEPIC converter. (a) Ch1: gate signal, 10V/div; Ch2: switch voltage stress, 50V/div. (b) Ch1: input voltage, 10V/div; Ch2: input current, 0.5A/div.



(a)

Fig. 9(a)

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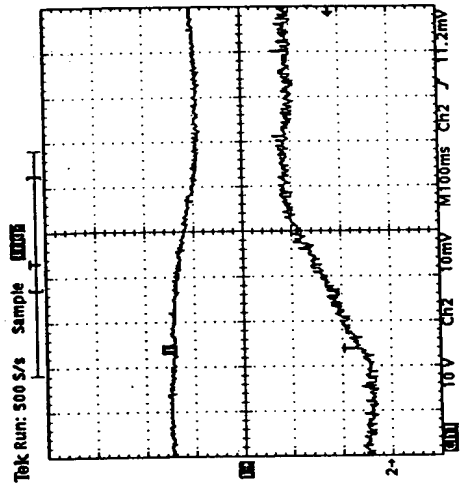


Fig. 10 Transient waveforms of the SEPIC converter subject to P_{lamp} changed from 500W to 900W. Ch1: input voltage, 10V/div. Ch2: input current, 0.5A/div.

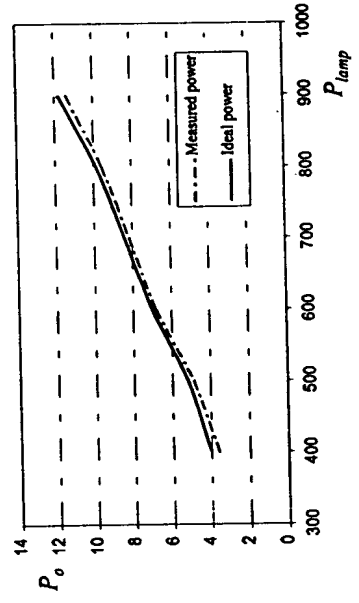


Fig. 11 Comparison of maximum solar panel output power using proposed method and the ideal ones in Fig. 6(b), under different P_{lamp} .

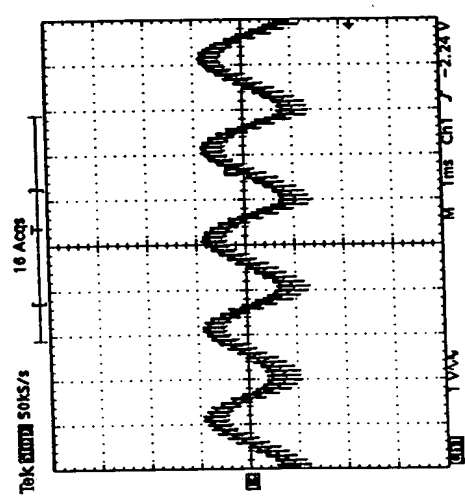


Fig. 9(b)

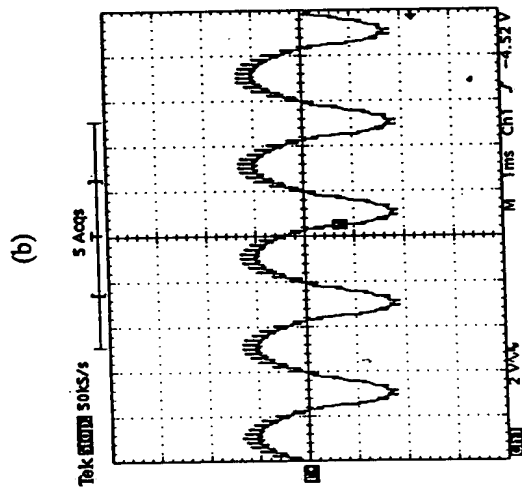


Fig. 9(c)

(c)

Fig. 9 Waveform of δv_i with respect to different value of R . (a) $R = 0.02$. (b) $R = 0.05$. (c) $R = 0.1$.

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